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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/646,813	08/25/2003	Chao-Wel Huang	MR1669-74	1435	
4586	7590 09/21/2004		EXAM	EXAMINER	
ROSENBERG, KLEIN & LEE			PASCHALL, MARK H		
	OTT CENTER DRIVE- CITY, MD 21043	SUITE 101	ART UNIT PAPER NUMBER		
	,		3742		

DATE MAILED: 09/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	$\sim 10^{-1}$			
	10/646,813	HUANG				
Office Action Summary	Examiner	Art Unit	T W-			
	Mark H Paschall	3742				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence ad	ddress			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period v  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ti within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fron cause the application to become ABANDONI	mely filed ys will be considered time n the mailing date of this of ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	<u>_</u> .					
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This	action is non-final.					
3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4) ☐ Claim(s) 1-3 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-3 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or		•				
Application Papers						
9)⊠ The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on is/are: a)□ acce						
Applicant may not request that any objection to the		, ,				
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex		•	• •			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat ity documents have been receiv ı (PCT Rule 17.2(a)).	tion No ed in this National	l Stage			
Mtzehmont/e)						
Attachment(s)  Notice of References Cited (PTO-892)	4) Interview Summary	/ (PTO-413)				
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	O-152)			

## **DETAILED ACTION**

Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The abstract of the disclosure is objected to because numerous examples of improper grammar and syntax. Correction is required. See MPEP § 608.01(b).

A substitute specification in proper idiomatic English and in compliance with 37 CFR 1.52(a) and (b) is required. The substitute specification filed must be accompanied by a statement that it contains no new matter. The specification is replete with improper grammar and syntax. Applicant is required to redefine the specification in terms of grammar and content. Correction is required.

The drawings are objected to because Black boxes S1 AH and RY in Figure 3 should be labeled in accordance with their function.

Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing

should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gillett et al in view of both Muderlak et al and Kishi et al. Gillett et al teach the claimed subject matter except for showing use of microprocessor control and except for showing use of level detection for heater control. Note that Gillett et al teach base 12,34 and container 48, which includes vents 36 in top with heater element 22 located within base. The patent to Kishi et al is applied for teaching that a resistive level detector can be

used to detect low level of a vaporizing volatile substance and deenergize the heater in response to this sensing and use of the same prevents dry fire and other hazards. In view of this teaching it would have been obvious to modify the Gillett et al system with level sensing so that a safer device would be effected by the user of the same. Use of microprocessor control of heating devices is conventional and efficient, as evidenced by the Muderlak et al patent, which show microprocessor control of a fragrance burner as conventional. In view of this teaching it would have been further obvious to modify the Gillett et al system with a microprocessor including power supply, to effect control of the heating element, this modification producing the benefit of more accurate control and hence more accurate fragrance dispersion.

## Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Sugo and JP 123A ' are cited for disclosing resistive level sensors in liquid holding systems. Harwig et al and Kvietok et al are cited for teaching microprocessor controlled fragrance heaters.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark H Paschall whose telephone number is 703 308-1642. The examiner can normally be reached on 7am - 3pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robin Evans can be reached on 703 306-5766. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MHPaM Mark H Paschall Primary Examiner Art Unit 3742

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